

Municipal Energy Benchmarking

City of Long Beach, NY

2015 - 2019

In 2017, the City of Long Beach was designated a Clean Energy Community by the New York Energy Research and Development Authority (NYSERDA) – an award that recognizes its leadership in reducing energy use, cutting costs, and driving clean energy locally. One of the Action Items that the City completed to achieve this award was adopting an Energy Benchmarking Policy to track energy use across municipal facilities. This policy requires annual reporting of energy consumption in government buildings and its purpose is to identify opportunities to cut energy waste, make smarter investment decisions, encourage efficiency, and drive continuous improvement.

For this report, 2015 was chosen as the "Baseline Year" - this is the first full calendar year in which energy usage is tracked and progress moving forward is measured against.

Please find the City's benchmarking reports below, and for more information on NYSERDA's Clean Energy Communities Program, visit: www.nyseda.ny.gov/All-Programs/Programs/Clean-Energy-Communities.

2015 Municipal Energy Benchmarking Data (Baseline Year)								
City of Long Beach, NY								
Property Name	Address	Electricity Use (kWh)	Electric Demand (kW)	Electricity Cost	Natural Gas Use (therms)	Natural Gas Cost	Total GHG Emissions (Metric Tons CO ₂ e)	Site EUI (kBtu/ft ²)
Central Garage	601 Long Beach Boulevard	245,327	45	\$ 38,553	20,332	\$ 18,898	240.0	126
City Hall	1 West Chester St	1,147,217	347	\$ 190,903	52,399	\$ 47,361	895.4	194
Firehouse - East End (Maple)	300 Maple Blvd	21,498	15	\$ 4,887	n/a	n/a	11.6	12
Firehouse - West End (Indiana)	1039 West Park Ave	119,431	47	\$ 21,309	11,282	\$ 12,452	124.2	242
Ice Rink	150 W Bay Drive	1,100,233	262	\$ 172,926	97,717	\$ 74,613	1,110.9	1,353
Magnolia Community Center	650 Magnolia Blvd	199,070	68	\$ 36,462	n/a	n/a	107.1	54
MLK Center	615 Riverside Boulevard	130,526	63	\$ 21,918	10,511	\$ 10,674	126.0	105
Other	Various Locations	1,055,938	96	\$ 219,000	27,663	\$ 34,240	715.0	n/a
Recreation Center	700 Magnolia Blvd	436,348	83	\$ 66,854	62,975	\$ 54,981	569.2	346
Sanitation/Beach/Hig hway/Storage	140-150 W. Pine Street	346,246	36	\$ 58,306	38,718	\$ 40,240	391.9	116
Streetlights	Various Locations	1,562,383	n/a	\$ 238,183	n/a	n/a	840.5	n/a
W. End Community Center	79 Maryland Avenue	20,705	14	\$ 4,830	1,971	\$ 7,902	21.6	74
Waste Water Treatment Plant	National Blvd	978,769	250	\$ 147,834	13,384	\$ 13,100	597.6	917
Water Purification Plant	765 Park Place	1,481,656	327	\$ 227,425	12,363	\$ 11,658	862.7	197
TOTAL:		8,845,346	1,653	\$ 1,449,390	349,314	\$ 326,118	6,613.7	-

2015 Baseline Benchmarking Data (OFFICIAL)

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Number of properties in report: 14

2016 Muncipal Energy Benchmarking Data City of Long Beach, NY														
Property Name	Address	Electricity Use		Peak Demand		Electricity Cost		Natural Gas Use		Natural Gas Cost		GHG Emissions		Site EUI (kBtu/ft²)
		kWh	% Change (from baseline)	kW	% Change (from baseline)	Cost	% Change (from baseline)	Therms	% Change (from baseline)	Cost	% Change (from baseline)	MTCO2e	% Change (from baseline)	
Central Garage	601 Long Beach Boulevard	207,183	▼ -15.5%	42	▼ -7.8%	\$ 31,605	▼ -18.0%	17,872	▼ -12.1%	\$ 17,373	▼ -8.1%	206.4	▼ -14.0%	109
City Hall	1 West Chester St	1,157,480	▲ 0.9%	366	▲ 5.4%	\$ 184,925	▼ -3.1%	50,032	▼ -4.5%	\$ 44,358	▼ -6.3%	888.4	▼ -0.8%	190
Firehouse - East End (Maple Ave)	300 Maple Blvd	27,572	▲ 28.3%	17	▲ 10.0%	\$ 5,787	▲ 18.4%	n/a	n/a	Not Available	n/a	14.8	▲ 27.6%	16
Firehouse - West End (Indiana Ave)	1039 West Park Ave	126,137	▲ 5.6%	42	▼ -11.7%	\$ 21,455	▲ 0.7%	12,808	▲ 13.5%	\$ 12,637	▲ 1.5%	135.9	▲ 9.4%	270
Ice Rink	150 W Bay Drive	1,201,454	▲ 9.2%	251	▼ -4.0%	\$ 173,725	▲ 0.5%	65,489	▼ -33.0%	\$ 52,455	▼ -29.7%	994.1	▼ -10.5%	1,065
Magnolia Community Center	650 Magnolia Blvd	174,268	▼ -12.5%	69	▲ 0.3%	\$ 32,798	▼ -10.0%	n/a	n/a	n/a	n/a	93.7	▼ -12.5%	47
MLK Center	615 Riverside Boulevard	138,591	▲ 6.2%	48	▼ -23.2%	\$ 23,409	▲ 6.8%	11,918	▲ 13.4%	\$ 12,136	▲ 13.7%	137.9	▲ 9.4%	117
Other	Various Locations	1,221,423	▲ 15.7%	83	▼ -13.5%	\$ 249,704	▲ 14.0%	23,075	▼ -16.6%	\$ 30,542	▼ -10.8%	779.6	▲ 9.0%	n/a
Recreation Center	700 Magnolia Blvd	418,888	▼ -4.0%	83	▲ 0.0%	\$ 61,337	▼ -8.3%	56,723	▼ -9.9%	\$ 50,469	▼ -8.2%	526.6	▼ -7.5%	315
Sanitation/Beach/High way/Storage	140-150 W. Pine Street	329,034	▼ -5.0%	29	▼ -18.3%	\$ 54,305	▼ -6.9%	44,445	▲ 14.8%	\$ 43,808	▲ 8.9%	413.1	▲ 5.4%	128
Streetlights	Various Locations	1,336,673	▼ -14.4%	n/a	n/a	\$ 187,696	▼ -21.2%	n/a	n/a	n/a	n/a	719.0	▼ -14.5%	n/a
W. End Community Center	79 Maryland Avenue	23,513	▲ 13.6%	15	▲ 11.1%	\$ 5,296	▲ 9.6%	2,370	▲ 20.3%	\$ 3,327	▼ -57.9%	25.2	▲ 16.7%	88
Waste Water Treatment Plant	National Blvd	1,214,354	▲ 24.1%	332	▲ 32.6%	\$ 166,911	▲ 12.9%	6,815	▼ -49.1%	\$ 8,727	▼ -33.4%	689.4	▲ 15.4%	946
Water Purification Plant	765 Park Place	1,410,766	▼ -4.8%	308	▼ -5.9%	\$ 203,115	▼ -10.7%	10,492	▼ -15.1%	\$ 10,684	▼ -8.4%	814.6	▼ -5.6%	184
TOTAL:		8,987,334	▲ 1.6%	1,683	▲ 1.8%	\$ 1,402,067	▼ -3.3%	302,039	▼ -13.5%	\$ 286,515	▼ -12.1%	6,438.7	▼ -2.6%	-

2016 Benchmarking Data (OFFICIAL)

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2017 Muncipal Energy Benchmarking Data City of Long Beach, NY														
Property Name	Address	Electricity Use		Peak Demand		Electricity Cost		Natural Gas Use		Natural Gas Cost		GHG Emissions		Site EUI (kBtu/ft²)
		kWh	% Change (from baseline)	kW	% Change (from baseline)	Cost	% Change (from baseline)	Therms	% Change (from baseline)	Cost	% Change (from baseline)	MTCO2e	% Change (from baseline)	
Central Garage	601 Long Beach Boulevard	202,976	▼ -17.3%	45	▼ -1.1%	\$ 32,787	▼ -15.0%	18,865	▼ -7.2%	\$ 17,466	▼ -7.6%	209.4	▼ -12.8%	113
City Hall	1 West Chester St	1,204,281	▲ 5.0%	367	▲ 5.7%	\$ 203,974	▲ 6.8%	33,248	▼ -36.5%	\$ 29,285	▼ -38.2%	824.4	▼ -7.9%	158
Firehouse - East End (Maple Ave)	300 Maple Blvd	24,871	▲ 15.7%	14	▼ -6.7%	\$ 5,643	▲ 15.5%	n/a	n/a	n/a	n/a	13.4	▲ 15.5%	14
Firehouse - West End (Indiana Ave)	1039 West Park Ave	129,296	▲ 8.3%	45	▼ -4.3%	\$ 22,912	▲ 7.5%	13,069	▲ 15.8%	\$ 13,155	▲ 5.6%	139.0	▲ 11.9%	276
Ice Rink	150 W Bay Drive	1,077,223	▼ -2.1%	247	▼ -5.6%	\$ 170,473	▼ -1.4%	33,002	▼ -66.2%	\$ 32,686	▼ -56.2%	754.8	▼ -32.1%	698
Magnolia Community Center	650 Magnolia Blvd	185,005	▼ -7.1%	69	▲ 1.5%	\$ 37,140	▲ 1.9%	n/a	n/a	n/a	n/a	99.5	▼ -7.1%	50
MLK Center	615 Riverside Boulevard	122,649	▼ -6.0%	48	▼ -23.2%	\$ 22,824	▲ 4.1%	11,770	▲ 12.0%	\$ 11,726	▲ 9.9%	128.5	▲ 2.0%	112
Other	Various Locations	1,452,821	▲ 37.6%	84	▼ -12.5%	\$ 301,341	▲ 37.6%	20,525	▼ -25.8%	\$ 30,314	▼ -11.5%	890.5	▲ 24.5%	n/a
Recreation Center	700 Magnolia Blvd	476,101	▲ 9.1%	88	▲ 6.0%	\$ 72,861	▲ 9.0%	57,094	▼ -9.3%	\$ 53,277	▼ -3.1%	559.4	▼ -1.7%	326
Sanitation/Beach/High way/Storage	140-150 W. Pine Street	324,327	▼ -6.3%	27	▼ -23.9%	\$ 56,726	▼ -2.7%	39,784	▲ 2.8%	\$ 40,770	▲ 1.3%	385.8	▼ -1.6%	117
Streetlights	Various Locations	1,097,356	▼ -29.8%	n/a	n/a	\$ 167,701	▼ -29.6%	n/a	n/a	n/a	n/a	590.3	▼ -29.8%	n/a
W. End Community Center	79 Maryland Avenue	26,978	▲ 30.3%	18	▲ 29.6%	\$ 6,303	▲ 30.5%	2,690	▲ 36.5%	\$ 3,753	▼ -52.5%	28.8	▲ 33.3%	100
Waste Water Treatment Plant	National Blvd	1,745,607	▲ 78.3%	407	▲ 62.5%	\$ 252,472	▲ 70.8%	6,097	▼ -54.4%	\$ 10,643	▼ -18.8%	971.4	▲ 62.6%	1,287
Water Purification Plant	765 Park Place	1,191,997	▼ -19.5%	270	▼ -17.5%	\$ 193,643	▼ -14.9%	10,602	▼ -14.2%	\$ 10,504	▼ -9.9%	697.5	▼ -19.1%	161
TOTAL:		9,261,488	▲ 4.7%	1,728	▲ 4.6%	\$ 1,546,802	▲ 6.7%	246,746	▼ -29.4%	\$ 253,578	▼ -22.2%	6,292.7	▼ -4.9%	-

2017 Benchmarking Data (OFFICIAL)

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2018 Municipal Energy Benchmarking Data City of Long Beach, NY														
Property Name	Address	Electricity Use		Peak Demand		Electricity Cost		Natural Gas Use		Natural Gas Cost		GHG Emissions		Site EUI (kBtu/ft²)
		kWh	% Change (from baseline)	kW	% Change (from baseline)	Cost	% Change (from baseline)	Therms	% Change (from baseline)	Cost	% Change (from baseline)	MTCO2e	% Change (from baseline)	
Central Garage	601 Long Beach Boulevard	191,709	▼ -21.9%	43	▼ -4.4%	\$ 30,855	▼ -20.0%	17,636	▼ -13.3%	\$ 18,401	▼ -2.6%	196.8	▼ -18.0%	106
City Hall	1 West Chester St	1,463,972	▲ 27.6%	384	▲ 10.6%	\$ 236,960	▲ 24.1%	60,594	▲ 15.6%	\$ 58,362	▲ 23.2%	1,109.4	▲ 23.9%	235
Firehouse - East End (Maple Ave)	300 Maple Blvd	33,026	▲ 53.6%	13	▼ -13.3%	\$ 6,488	▲ 32.8%	n/a	n/a	n/a	n/a	17.8	▲ 53.4%	19
Firehouse - West End (Indiana Ave)	1039 West Park Ave	142,185	▲ 19.1%	48	▲ 2.1%	\$ 24,934	▲ 17.0%	10,934	▼ -3.1%	\$ 12,499	▲ 0.4%	134.6	▲ 8.4%	249
Ice Rink	150 W Bay Drive	1,114,286	▲ 1.3%	273	▲ 4.3%	\$ 177,974	▲ 2.9%	33,143	▼ -66.1%	\$ 37,189	▼ -50.2%	775.5	▼ -30.2%	381
Magnolia Community Center	650 Magnolia Blvd	226,264	▲ 13.7%	71	▲ 4.1%	\$ 43,106	▲ 18.2%	n/a	n/a	n/a	n/a	121.7	▲ 13.6%	61
MLK Center	615 Riverside Boulevard	90,530	▼ -30.6%	38	▼ -39.2%	\$ 17,097	▼ -22.0%	11,921	▲ 13.4%	\$ 13,352	▲ 25.1%	112.0	▼ -11.1%	105
Other	Various Locations	1,639,907	▲ 55.3%	85	▼ -11.5%	\$ 332,199	▲ 51.7%	23,928	▼ -13.5%	\$ 37,143	▲ 8.5%	1,009.3	▲ 41.2%	n/a
Recreation Center	700 Magnolia Blvd	501,775	▲ 15.0%	93	▲ 12.0%	\$ 75,711	▲ 13.2%	56,758	▼ -9.9%	\$ 59,308	▲ 7.9%	571.4	▲ 0.4%	328
Sanitation/Beach/High way/Storage	140-150 W. Pine Street	375,518	▲ 8.5%	39	▲ 8.5%	\$ 64,164	▲ 10.0%	41,518	▲ 7.2%	\$ 48,522	▲ 20.6%	422.5	▲ 7.8%	125
Streetlights	Various Locations	1,150,513	▼ -26.4%	n/a	n/a	\$ 178,058	▼ -25.2%	n/a	n/a	n/a	n/a	618.9	▼ -26.4%	n/a
W. End Community Center	79 Maryland Avenue	24,127	▲ 16.5%	15	▲ 11.1%	\$ 6,021	▲ 24.6%	3,097	▲ 57.2%	\$ 4,467	▼ -43.5%	29.4	▲ 36.1%	109
Waste Water Treatment Plant	National Blvd	1,515,157	▲ 54.8%	354	▲ 41.4%	\$ 222,251	▲ 50.3%	5,206	▼ -61.1%	\$ 6,067	▼ -53.7%	842.7	▲ 41.0%	1,116
Water Purification Plant	765 Park Place	1,177,380	▼ -20.5%	298	▼ -8.8%	\$ 190,679	▼ -16.2%	9,794	▼ -20.8%	\$ 10,957	▼ -6.0%	685.4	▼ -20.6%	157
TOTAL:		9,646,348	▲ 9.1%	1,754	▲ 6.2%	\$ 1,606,497	▲ 10.8%	274,530	▼ -21.4%	\$ 306,266	▼ -6.1%	6,647.4	▲ 0.5%	-

2018 Benchmarking Data (OFFICIAL)

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2019 Muncipal Energy Benchmarking Data City of Long Beach, NY														
Property Name	Address	Electricity Use		Peak Demand		Electricity Cost		Natural Gas Use		Natural Gas Cost		GHG Emissions		Site EUI (kBtu/ft²)
		kWh	% Change (from baseline)	kW	% Change (from baseline)	Cost	% Change (from baseline)	Therms	% Change (from baseline)	Cost	% Change (from baseline)	MTCO2e	% Change (from baseline)	
Central Garage	601 Long Beach Boulevard	189,962	▼ -22.6%	43	▼ -4.4%	\$ 30,896	▼ -19.9%	16,673	▼ -18.0%	\$ 16,211	▼ -14.2%	190.7	▼ -20.5%	102
City Hall	1 West Chester St	1,512,976	▲ 31.9%	353	▲ 1.8%	\$ 243,076	▲ 27.3%	62,113	▲ 18.5%	\$ 53,138	▲ 12.2%	1,143.8	▲ 27.7%	241
Firehouse - East End (Maple Ave)	300 Maple Blvd	33,536	▲ 56.0%	18	▲ 20.0%	\$ 7,019	▲ 43.6%	n/a	n/a	n/a	n/a	18.0	▲ 55.2%	19
Firehouse - West End (Indiana Ave)	1039 West Park Ave	145,565	▲ 21.9%	44	▼ -6.4%	\$ 25,409	▲ 19.2%	9,175	▼ -18.7%	\$ 10,442	▼ -16.1%	127.0	▲ 2.3%	223
Ice Rink	150 W Bay Drive	1,084,190	▼ -1.5%	233	▼ -11.2%	\$ 171,988	▼ -0.5%	33,158	▼ -66.1%	\$ 34,051	▼ -54.4%	759.3	▼ -31.7%	184
Magnolia Community Center	650 Magnolia Blvd	228,855	▲ 15.0%	66	▼ -3.7%	\$ 42,860	▲ 17.5%	n/a	n/a	n/a	n/a	123.1	▲ 14.9%	62
MLK Center	615 Riverside Boulevard	83,389	▼ -36.1%	38	▼ -39.2%	\$ 16,121	▼ -26.4%	10,721	▲ 2.0%	\$ 11,249	▲ 5.4%	101.8	▼ -19.2%	95
Other	Various Locations	1,651,593	▲ 56.4%	87	▼ -9.9%	\$ 342,803	▲ 56.5%	20,394	▼ -26.3%	\$ 32,414	▼ -5.3%	996.8	▲ 39.4%	n/a
Recreation Center	700 Magnolia Blvd	462,859	▲ 6.1%	90	▲ 7.8%	\$ 69,924	▲ 4.6%	51,686	▼ -17.9%	\$ 44,836	▼ -18.5%	523.5	▼ -8.0%	300
Sanitation/Beach/High way/Storage	140-150 W. Pine Street	365,501	▲ 5.6%	30	▼ -16.9%	\$ 62,129	▲ 6.6%	46,841	▲ 21.0%	\$ 47,218	▲ 17.3%	445.4	▲ 13.7%	136
Streetlights	Various Locations	1,041,695	▼ -33.3%	-	n/a	\$ 163,931	▼ -31.2%	n/a	n/a	n/a	n/a	560.4	▼ -33.3%	n/a
W. End Community Center	79 Maryland Avenue	25,093	▲ 21.2%	18	▲ 29.6%	\$ 6,517	▲ 34.9%	2,236	▲ 13.5%	\$ 3,326	▼ -57.9%	25.4	▲ 17.6%	86
Waste Water Treatment Plant	National Blvd	1,583,989	▲ 61.8%	354	▲ 41.2%	\$ 230,652	▲ 56.0%	24,277	▲ 81.4%	\$ 19,799	▲ 51.1%	981.0	▲ 64.2%	1,536
Water Purification Plant	765 Park Place	1,136,811	▼ -23.3%	255	▼ -22.0%	\$ 183,080	▼ -19.5%	10,265	▼ -17.0%	\$ 10,482	▼ -10.1%	666.1	▼ -22.8%	154
TOTAL:		9,546,012	▲ 7.9%	1,627	▼ -1.6%	\$ 1,596,405	▲ 10.1%	287,539	▼ -17.7%	\$ 283,167	▼ -13.2%	6,662.3	▲ 0.7%	-

2019 Benchmarking Data (OFFICIAL)

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Terms:

kWh (kilowatt hour) - A measure of electric energy consumed over a given period of time (i.e. monthly). Energy (kWh) = power (kW) multiplied by the length of time (hours) it is used.

kW (kilowatt) - A measure of electric power at a given moment in time. Power (kW) multiplied by the length of time (hours) it is used = Energy (kWh)

Therm - A measure of energy used for billing natural gas use.

GHG (greenhouse gases) - Gases that trap heat in our atmosphere, such as carbon dioxide, methane, nitrous oxide, fluorinated gases, etc.

MTCO₂e (Metric Tons of Carbon Dioxide Equivalent) - Used to convert various greenhouse gases (CO₂, methane, nitrous oxide) to one universal unit

Site EUI (Energy Use Intensity) - Calculated by dividing total energy use in one year by the Gross Floor Area of the building

kBtu - A measure of energy, short for 1000 British Thermal Units